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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant;	WALCZAK ET AL.)
Appl. No.	09/769,122) Examiner D. Le
Confirm. No.	5562) Art Unit 2685
Filed:	24 January 2001	Atty. Docket No. CS10560
	•)
Title:	"Method And System	For Validating A Mobile Station

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents Alexandria, Virginia 22313-1450

Sir:

The following Declaration and any attachments are to establish conception in the United States of claimed subject matter in the referenced patent application and diligence to the filing of the referenced patent application on 24 January 2001 from a date prior to the effective date of the following references relied upon by the Examiner to support rejections under 35 U.S.C. 102(e) and 35 U.S.C. 103(a) in the Office Action dated 10 November 2003:

United States Publication No. 2002/00198001 A1 (Bajikar) filed in the United States on 27 December 2000; and WALCZAK ET AL. "Method And System for Validating A Mobile Station Location Fix" Atty. Docket No. CS10560

Appl. No. 09/769,122 Confirm. No. 5562 Examiner D. Le Art Unit 2685

United States Publication No. 2002/0164993 A1 (Elliot) filed in the United States on 12 December 2000.

In support of this declaration, We, Thomas J. WALCZAK of Woodstock, Illinois, and William P. ALBERTH of Crystal Lake, Illinois, declare and sayeth the following:

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That we conceived the claimed subject matter of the referenced patent application in the United States before the 12 December 2000, which is prior to the effective dates of United States Publication No. 2002/00198001 A1 (Bajikar) and United States Publication No. 2002/0164993 A1 (Elliot) in the course of employment by Motorola Inc., the assignee of the instant application by virtue of an assignment duly recorded on the Official record of the United States Patent & Trademark Office, REEL/FRAME 0111509/0088;

That the claimed subject matter of the referenced patent application was the subject of a written invention disclosure prepared after conception, and that before 12 December 2000 the invention disclosure was submitted to a Patent Committee of Motorola Inc., the assignee of record for consideration and assignment to a patent attorney for preparation and filing of a patent application;

That each of the dates redacted from the disclosure attached as Appendix I is prior to 12 December 2000;

That on information and belief a patent application was prepared and filed, in due course upon, in the United Stated Patent Office on 24 January 2001 by or on behalf of Motorola Inc.;

That all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; WALCZAK ET AL. "Method And System for Validating A Mobile Station Location Fix" Atty. Docket No. CS10560

Appl. No. 09/769,122 Confirm. No. 5562 Examiner D. Le Art Unit 2685

and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Thomas J. WALCZAK

Date

William P. ALBERTH Date

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See attached.	
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 5. List the closest known technology (attach article, patent, catalog sheet or other docum See attached. 6. What are the potential applications for use of this invention? Any wireless device. 	entation).
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DETERMINATION OF LEGAL INVENTORSHIP FOR PATENT APPLICATION MUST BE MADE PATENT DEPARTMENT.	
Inventor's signature (IMPORTANT - YOU MUST USE YOUR FULL FIRST, MIDDLE AND LAS'	T NAMES).
10, Inventor's Full Name: (Type) Signature Date	Social Sec. No.
Home Address: Street City	396-72-7341
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Home Address: Street 3070 Boerderij Way Citizen of (i.e. U.S., Germany, Etc.) Dept. No. Phone Room No.	396-72-7341 Country Zip Code USA 60098 Employee Status
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Home Address: Street 3070 Boerderij Way Citizen of (i.e. U.S., Germany, Etc.) USA 11. inventor's Full Name: (Type) William P. Alberth Jr. Home Address: Street 1471 Woodscreek Cir Citizen of (i.e. U.S., Germany, Etc.) Dept. No. Phone Room No. Signature City State 1471 Woodscreek Cir Crystal Lake Dept. No. Phone Room No. Crystal Lake Dept. No. Phone Room No. Room No. Signature City State 1471 Woodscreek Cir Crystal Lake Dept. No. Phone Room No.	396-72-7341 Country Zip Code USA 60098 Employee Status X Permanen Contracto Social Sec. No. 323-60-3466 Country Zip Code USA 60014
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2. Problem resolved with the Invention

GPS will be widely used for locating cell phones in the future. However, GPS is not 100% accurate and can give erroneous results. Errors are mainly due to operation in blocked environments and urban canyon environments. In these environments either a limited number of satellites are available to make a position fix from or multi-path causes errors in the position solution. Due to the importance of locating users in emergency situations, it is desirable to augment GPS to build confidence in the location fix.

3. Describe the invention in detail. Include its operation, purpose, environment and how problem(s) were solved.

Solution #1:

Cell phones routinely sample neighboring cells to report signal strengths to the base station. This information is used today for managing hand-offs between cells. We would store away this information with time stamps either locally in the handsets or in the base station.

When the user initiates an E911 call, the base station down loads the neighbor cell history (or recalls the information from memory). Base station can compare the readings and history against a database and determine if the GPS location makes sense.

- 1. Figure 1 shows a map of a cellular system with cell sites A through H.
- User X moves through the cell sites going about his business.
 - 2a. As the user moves the base stations up date his neighbor list and the phone routinely makes signal strength measurements of the neighboring cells.
 - 2b. The phone stores a history of the neighbor list and measured signal strengths as described in Figure 2. Alternately, the history can be stored in the base station.
- 3. User initiates an E911 call, determines a GPS position and sends fix to the base station. Cell phone also downloads neighbor list history to base station.
- 4. Base station plots history of neighbor list against data base of measured signal strength vs location. Plotted positions will have significant error bars (if they didn't we wouldn't need GPS).
 - 4a. For this example we presume that the user's cell phone had 5 history points in memory. The possible locations and error bars of the six points are plotted in Figure 3 as well as the reported GPS fix.
- 5. For this example, the reported GPS fix (Figure 3) does not correspond to the history estimates. The history points indicate that the cell phone is probably somewhere between Cell sites C, D, and E, while the GPS fix shows the cell phone in cell H. For this example it is easy to determine that the GPS fix is questionable.
- 6. At this point the base station can order the cell phone to take another GPS fix. If the present GPS fix is reported to the E911 operator it can be tagged as questionable data. This would tip the operator that he/she should concentrate on trying to ask the user exactly where they are.

7. This process is further outlined in Figure 4.	• •
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Solution #2:

The technique of using past history to validate the present position may also be extended to storing and time stamping previous GPS fixes. This will work in much the same way as the previous example except that the use of neighbor lists is replaced by GPS fixes.

The analysis of past location information can be used to determine the accuracy of the present location fix. There are several examples of how this works 1) in tracking applications if there is a plotted point with significant deviation from the path of the average locations this data may be assumed to be erroneous 2) if the distance between the recent past location estimates and the present location fix would require the person to move at a velocity greater than is considered practical the fix can also be considered erroneous.

4. What new elements (e.g. components, circuits, process steps) or combination of known elements or software algorithm produced the improvement(s) over known technology?

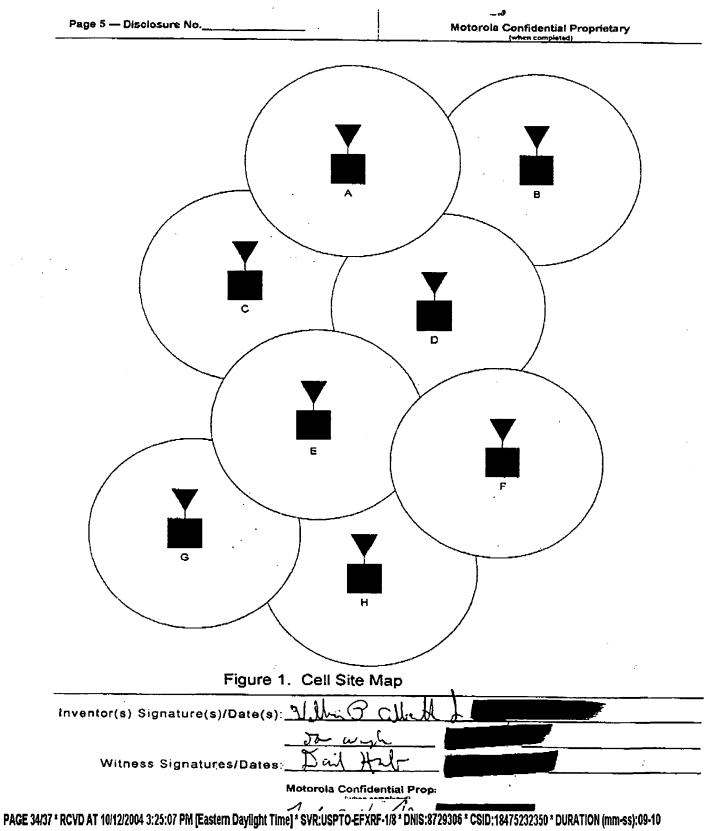
We would write claims to cover:

- Storing in the cell phone time stamped histories of neighbor cell measurements and previous GPS fixes.
- Storing in the base station (or switch) time stamped histories of users neighbor list and previous GPS fixes.
- c. Using the history information to develop confidence in the GPS fix.

5. Prior Art

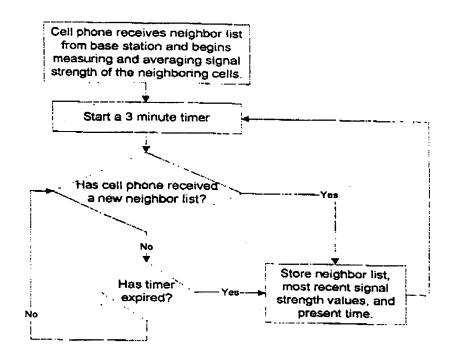
Triangulating off neighbor cell measurements is a known method to determine location. But using a history of measurements to assist in location is not known.

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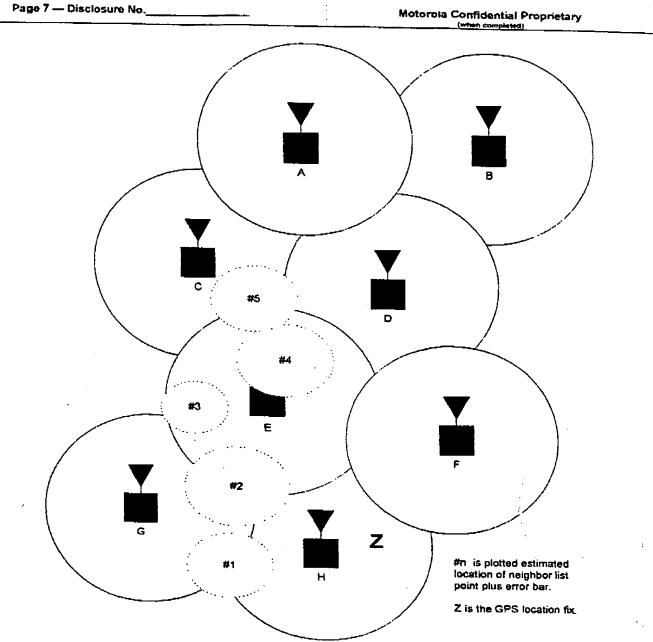
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Figure 2. Method of Storing Neighbor List History

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Figure 3. Cell Site Map with History Points and GPS fix plotted

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Page 8 — Disclosure No.____

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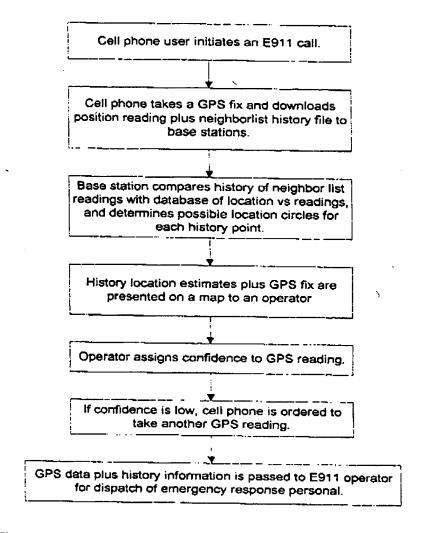


Figure 4. Method of Processing History Points and GPS Fix

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